

en

Electric wheelchair

Model 1.620

Operating manual



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MEANING OF THE APPLIED MARKERS

Safety instructions with a coloured background are mandatory and need to be observed under any circumstance!

-  This symbol indicates tips and recommendations.
- [] Reference to a picture number.
- () Reference to a function element within a picture.

INTRODUCTION

Read and observe this manual before first operation. Children and juveniles should read this documentation together with their parents respectively a supervisor or accompanying person before first use.

This operating manual is to help you get accustomed to the handling of the wheelchair as well as to prevent accidents.

-  Please note that the illustrated equipment variants can deviate from your model.

We have therefore also listed chapters with options that might not be applicable for your vehicle.

Users with visual impairments can find the PDF-files together with further information on our website:

< www.meyra.com >.

-  Contact your specialist dealer when required.

Information about product safety, possible recalls and general handling instructions of our products can be found in the < *Information center* > on our website:

< www.meyra.com >.

LIST OF MODELS

This operating manual applies to the following models:

Model 1.620

INDICATIONS AND CONTRAINDICATIONS

With physical handicaps, e.g. blindness as well as doubtful cognitive qualification, a driving certificate for independent driving of the wheelchair is required.

In case of allergic reactions, skin rashes and/or pressure sores during the use of the wheelchair sores contact a doctor immediately.

Mobility products of this category serve independent mobility or transport through third persons, in constant or during a longer period sufficient walking ability exists.

Decisive for this is:

-  The handicap compensation to fulfil basic needs.
 - Independent mobility in the apartment an in domestic environments.
 - Leave the home for short walks in order to reach the generally close to home available areas in which to carry out daily affairs.
-  Protection from handicaps, resp. preventable secondary diseases.
 - Protection from joint contractures,
 - Protection from decubiti,
 - Protection from lung diseases such as pneumonia,
 - Protection from premature joint degeneration caused by false strain.

For some of the indications special equipment variants may be required on the aid, such as:

- special handrims,
- electric adjustment options,

especially for highly complex provisions, this can extend to the physiological correct standing and lying position.

The appropriateness of the aid as well as the extent of requirements is constituted through the doctors prescription, often combined with the consultation protocol of a therapist or medical device adviser.

SPECIFICATIONS

The electric wheelchair is an environment-friendly electric vehicle. The electric wheelchair was developed for adolescents and adults, in order to increase their limited action radius due to health or age depending problems.

The model has been assigned the 'Use Class B' as per the EN12184 standard. The electric wheelchair with active footboard and arm support units serves solely to transport one seated person and not as a pulling aid, transporter or similar.

USE

Do not reach onto the turning surface of the wheels or grip the tyres of the rotating wheels. – Danger of injury!

The wheelchair is driven through the joystick integrated in the operating module.

Refrain from jerky starts with your wheelchair. – Danger of tipping over or tilting!

Do not use the wheelchair without the lowered footboard or when the arm support units are removed!

Avoid driving on inclinations or slopes with insufficient surface condition.

The wheelchair is applicable on level, firm surfaces and can be used as follows:

- for indoors (e.g. apartment, day care),
- outdoors (e.g. paved paths in parks),
- as a companion on tours (e.g. in a bus or train).
- Never expose the wheelchair to extreme temperatures and damaging environmental conditions, such as sunlight, extreme cold or salty water.
- Sand and other dirt particles can seize on moving parts and render them without function.

You must not let yourself be carried in your wheelchair by having the wheelchair lifted from the floor. Parts that are not securely fixed, e.g. arm support units, can come away and thus cause an accident.

 The wheelchair is a vehicle and not a carrying device.

Only apply the wheelchair within the scope of the specifications and limitation described in chapter *Technical data* on page 50.

ADJUSTMENT

Always have adaptation and adjustment work carried out by a specialist dealer.

The wheelchair offers manifold adjustment possibilities to individual vital statistics. The wheelchair should be adapted to your needs by a specialist dealer before the first use. The adaptation will take into account the driving experience, the physical limits of the user and the main place of use of the wheelchair.

- ☞ We recommend a regular control if the wheelchair adjustment in order to ensure a long-term optimal provision even with changing illness/handicap patterns of the user. Especially for children and juveniles an adjustment every 6 months is recommendable.
- ☞ We recommend regular medical checks for independent determination of the driving ability.

STATUTORY REGULATIONS

Please comply with the legal requirements of the country in which the wheelchair is used.

- ☞ The road traffic regulations and road traffic licensing regulations (StVO resp. StVZO) are valid in Germany.
- ☞ Inform yourself at your specialist dealer or the road traffic authorities about the legal regulations concerning the operation of your electric wheelchair.

HIGH-FREQUENCY RADIATION

Our electric vehicles conform with the corresponding requirements of the EG-directive 93/42 EWG for medical devices. Nevertheless Interferences from high frequency rays of other electric devices cannot generally be ruled out.

Despite tested protective measures on the electrical equipment of the vehicle, disturbances in the operation cannot be ruled out when driving through extreme electric Interferences. These are manifested in strange driving behaviour. If the electric wheelchair reacts uncontrollably in such a case or if other electronic devices (such as for example highly sensitive, electromagnetic devices such as anti-theft units in shopping centres) are influenced by the vehicle, stop immediately and switch the electric wheelchair off. Never drive the electric wheelchair in the proximity of electronic medical equipment with a high danger potential and/or life-supporting function or in the proximity of diagnostic equipment.

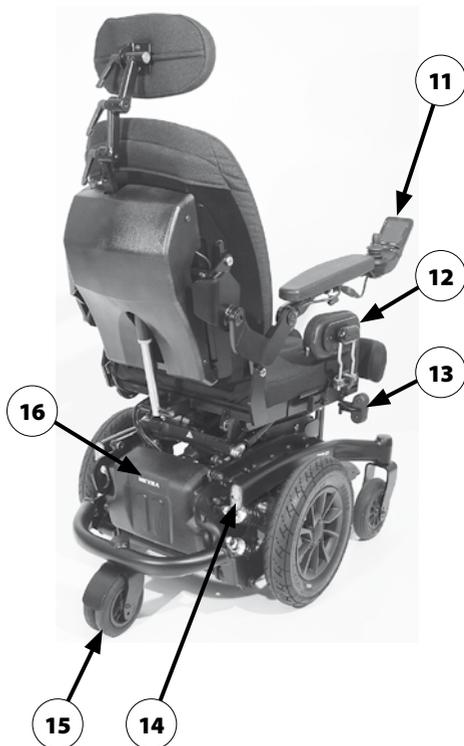
OVERVIEW

Model 1.620

The overview shows the most important components and operating devices of the electric wheelchair.

Pos. Description

- (1) Head support
- (2) Back support
- (3) Arm support
- (4) Seat pad
- (5) Knee pad
- (6) Footboard
- (7) Steering wheel
- (8) Type plate
- (9) Selection lever drive-/push mode
- (10) Driving wheel
- (11) Operating module
- (12) Side cushion
- (13) Front lighting
- (14) Rear lighting
- (15) Support castor
- (16) Electronic cover



BASIC SAFETY INFORMATION

This safety information is an extract of the Safety and general handling instructions, that can be found on our website: < www.meyra.com >.

Do not insert fingers into open frame tubes (for example after removing the arm supports, leg supports or support castors). – Danger of injury!

A stable sitting position is to kept while using the wheelchair, even when not in motion and especially on hills and slopes. – Danger of accident!

In a safe sitting position the back of the user lies directly on the back support upholstery and the hip of the user is at the back end of the seat.

Transit out of the wheelchair on hills/slopes may only be carried out in emergencies and with the aid of an accompanying person and/or helper! – Danger of accident!

Increased danger of tipping over when using the angle adjustable back support.

Before starting to drive make sure that no negative seat inclination has been adjusted, respectively that a safe seating position is ensured.

Accompanying person

The accompanying person must be made aware of all possible danger situation before the start of his/her supportive involvement. The parts of your wheelchair that are held onto by the accompanying person are to be checked for tight fit.

Transfer out of the wheelchair

Drive with the wheelchair as closely as possible to the spot where you want to switch out of the wheelchair.

 We recommend to conduct the transfer from the wheelchair together with an aid.

Reaching for objects

Avoid an extreme forward or backward inclination of the upper body when picking up or placing heavy objects. – Danger of wheelchair tipping over, especially in the case of narrow seat widths and high seat heights (seat cushion)!

GENERAL SAFETY INFORMATION

- Do not drive into water with the vehicle.
- Do not insert fingers into open frame tubes (for example after removing the leg supports or operating module). – Danger of injury!
- A secure sitting position is to be kept while driving the electric vehicle even during stillstand and especially on hills/slopes. – Danger of accidents!
- In a safe sitting position the back of the user lies directly on the back support belt/-cushion and the hip of the user is at the back end of the seat belt/-cushion.
- Never reach into the swivel area of the components when operating adjustment devices, e.g. back support or leg supports. There is a danger of injury through squashing.
- Exposure to direct sunlight can cause seat covers/upholstery, arm support pads, leg supports and handles to heat up to over 41 °C. – Contact with exposed skin can result in injury! Prevent such heating by parking the wheelchair in a shaded area.
- Existing electric or manual adjustments are to be adjusted for the drive mode in such a fashion that a secure handling of the vehicle is warranted.
- A back support reclined to the rear or a seat raised at the front generally bears the risk of tilting over in drive mode.

- With push mode engaged the vehicle can no longer be driven or braked down through the joystick/director. – Danger of accidents!
- A fastened retaining strap can provide you with the necessary safety (also view *Emergency braking* on page 13). Do not undertake journeys alone if possible so that you can always have the assistance of a helper in problem situations!
- In case you encounter an emergency situation, we recommend an emergency call system suited to your disability.

Emergency braking

The danger of injury during an emergency braking is especially great if you are disadvantaged by imperfect osteogenesis or similar syndrome. You must then drive very carefully in order to avoid this danger situation!

The strong deceleration of the vehicle during an emergency braking can hurl you forwards out of the vehicle if your physical condition cannot prevent this. You can prevent this by wearing a retaining strap.

Initiating the emergency braking

Release the joystick and switch the electric vehicle off. The vehicle will brake down abruptly on a short distance.

Transfer out of the vehicle

- ⚠ Entering or exiting the electric vehicle may only occur when the vehicle is switched off and the parking brake activated resp. drive mode achieved through the selection lever.
- ⚠ When transferring never support yourself on the operating module.

Curve driving

There is a danger that the vehicle can veer from the course, resp. tilt over!

- ⚠ Principally choose a driving speed that is adequate for the curve radius, meaning never to drive into curves too quickly.
- ⚠ In order to always have a lateral support during curve driving, never drive without side elements (arm supports), respectively only with correctly adjusted side elements (arm supports) which give lateral support to the body.

Driving on falling, rising or transverse gradients

For safety reasons, the maximum permitted gradient is limited because the tip-over stability and the braking and steering behaviour are impaired by a reduced floor/road.

- ⚠ Observe chapter *Technical data* on page 50.
- ⚠ Always drive with a low speed on rising/falling gradients.
- ⚠ Extreme inclinations or slopes are to be driven on with adequate final speed.
- ⚠ Never switch to push mode on gradients. The automatic brakes are inoperative in the push mode.

- ⚠ Do not push the vehicle on gradients.
- ⚠ Do not lean towards the downhill direction when driving on rising, falling or transverse gradients.
- ⚠ Do not adjust the seat or back support angle on rising and falling gradients. – Danger of overturning!
- ⚠ While driving in curves and when turning on inclinations and slopes there is a danger of tilting.
- ⚠ Avoid jerky changes of the driving condition (especially with critically adjusted driving parameters as for example high delay values).
- ⚠ Never move the drive/push mode selection lever, to the push mode position whilst driving uphill or downhill! The vehicle will then roll downhill uncontrollably, without being able to be steered and can only be stopped with the parking brake.
- ⚠ Avoid driving on inclinations or slopes with insufficient surface condition. Even with only on sided existence of ice, water, moss or similar on the ground, there is a danger that the vehicle will loose traction and begin to slide out of control. If required immediately bring the joystick into the neutral position and additionally activate an existing hand-brake on the vehicle in order to eliminate the dangerous situation.

Crossing obstacles

Check the vehicle and all exposed cables for damage after a collision with an obstacle!

- ☞ For overcoming obstacles with the help of ramps please also observe chapter driving in elevators and lifting platforms and the general safety and handling instructions on our website:

< www.meyra.com >.

Transport in public methods of transportation

Use the space designated by the public transportation services for parking.

Your electric vehicle is not designed for user transport in public transportation vehicles. Limitations may occur. We recommend use of one of the firmly built in seats of the public vehicle.

Should it nevertheless become necessary to carry out the transport while sitting in the electric vehicle, the following needs to be observed:

- ☞ Use the space designated by the public transportation services for parking.
- ☞ Observe the regulations of the transport company before parking the electric vehicle..
- ☞ Park your electric vehicle opposite to the driving direction in the reserved space.
- ☞ The electric vehicle is to be placed so that the back support it will be supported by the border of the parking space.

- ☞ One side of the wheelchair must additionally lie near a further border of the parking space, so that the electric vehicle cannot slide to the side in case of an accident or sudden braking motion.
- ☞ Additionally activate the parking brakes and switch the electric vehicle OFF.

HANDLING THE ELECTRIC WHEELCHAIR

Only transfer into or out of the electric wheelchair when the electric wheelchair is switched off and the selection lever drive-/push mode on both sides is in drive mode!

An unintentional movement of the joysticks (driving and steering lever) can otherwise lead to an uncontrolled start of the electric wheelchair! – Danger of accident!

Securing the electric wheelchair

The electric wheelchair is to be secured as follows to prevent it from rolling off unintentionally:

1. Switch the selection lever for drive-/push mode up to drive mode on both sides.
2. Switch off the operating module.

Functional checks

The functions and safety of the electric wheelchair must be checked before the start of each journey.

- ☞ For this observe chapter < *Inspections before starting to drive* > in the accompanying documentation.

Driving

You define the speed and direction yourself with the joystick movements (driving and steering lever) while driving as well as the preadjusted maximum final speed of your electric wheelchair.

- ☞ Therefore observe operation manual < *Operating module* >.

BRAKES

Brake the vehicle down carefully and in time. This is especially the case when driving in front of people and while driving downhill!

Service brake

The motors work electrically as operating brake and carefully brake the electric wheelchair down without jerks to stillstand.

Braking the wheelchair

For allotted braking of the wheelchair slowly guide the joystick (steering and driving lever) back to the centre position (zero-setting).

- ☞ The electric wheelchair stops in shortest distance after releasing the joysticks.

Braking distance

In delivery condition the braking distance is according to the maximum values of EN 12184:

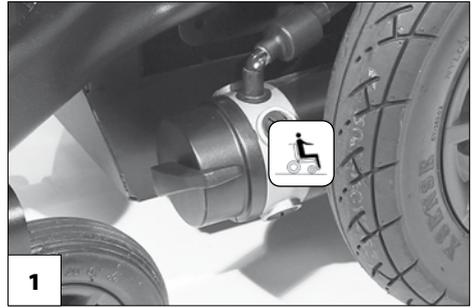
- 1.0 m with 6 km/h,
- 1.5 m with 8 km/h,
- 2.1 m with 10 km/h,
- 2.9 m with 12 km/h,
- 4.5 m with 15 km/h.

The braking distance may get longer depending on the road conditions or the condition of the tyres.

Parking brake

The parking brakes are only effective when the selection lever drive-/push mode is set to drive mode on both drives. They disengage automatically when the wheelchair starts off.

The parking brakes are manually disengaged by switching the selection lever drive-/push mode on both drives to push mode.

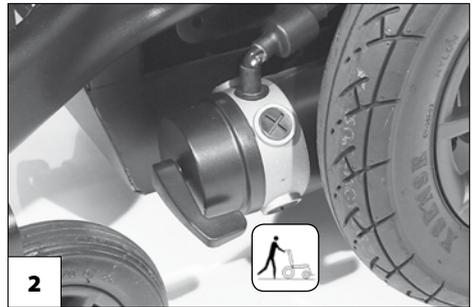


Locking the brakes

It should not be possible to push the electric wheelchair forward when the brakes are engaged.

To engage the brakes swivel the selection lever drive-/push mode on both sides as far as possible into drive mode [1].

- ☞ Activation of the selection lever is intended for an accompanying person.



Releasing the brakes

To loosen the brakes swivel the selection lever drive-/push mode on both sides down as far as possible into push mode [2].

- ☞ Activation of the selection lever is intended for an accompanying person.

Drive-/push mode

Only switch the electric wheelchair to push mode when it is standing still for positioning or in case of emergencies, but not on slopes/hills.

After push mode do not forget to switch the drive back to drive mode. Danger of uncontrolled electric wheelchair movement if you do not do this.

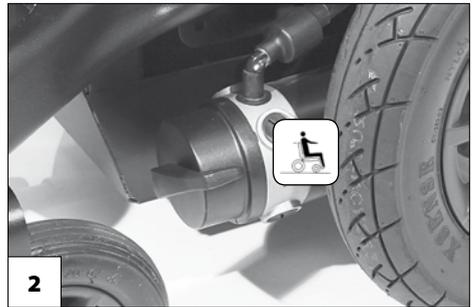
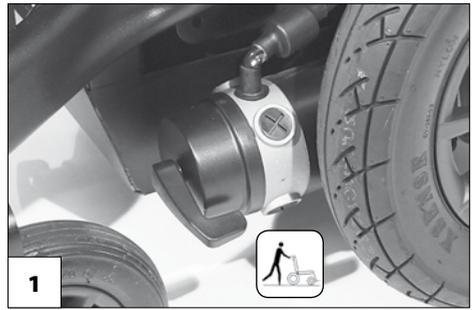
- ☞ Grab hold of the push handle and back support in order to shunt the electric wheelchair.

Selecting the push mode

1. Switch off the operating module because the pushing will otherwise be made difficult by the electric system.
 - ☞ Therefore observe operation manual < *Operating module* >.
2. Disengage the brakes [1].
 - ☞ Therefore observe chapter *Releasing the brakes* on page 17.
 - ☞ The electric wheelchair can now be pushed.

Selecting the motor mode

1. Activate the brakes [2].
 - ☞ Therefore observe chapter *Releasing the brakes* on page 17.
2. Switch the operating module on.
 - ☞ Therefore observe operation manual < *Operating module* >.
 - ☞ The electric wheelchair is now ready for use again.



SELECTING THE OPERATION

In order to obtain operational readiness of the electric wheelchair the following directions are to be carried out in the indicated order.

- ☛ Charge the drive batteries via the operating module before the first journey.

1. Selecting the motor mode

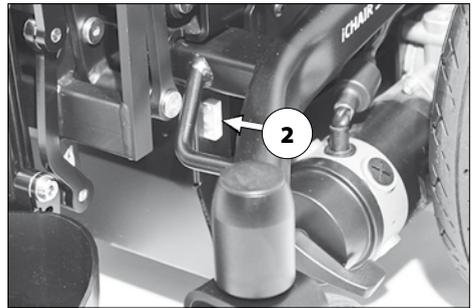
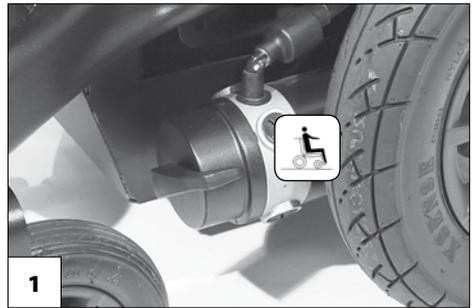
Switch the drive motors to the drive mode [1]. – For this engage the brakes.

- ☛ Observe chapter *Locking the brakes* on page 17.

2. Check the correct fit of the battery/ mains fuse

Blade-type fuse:

The blade fuse for the battery/main current has to sit tightly in the fuse holder (2).



3. Position of the operating module

The operating module should be positioned in such a way that you can comfortably and safely steer the electric wheelchair.

Adjusting the distance to the padded arm support:

After the adjustment retighten the clamping screw. – Therefore observe chapter *Positioning the operating module* on page 22.

The distance of the operating module to the padded arm supports can be adjusted after loosening the clamping screw (3).

4. Switch the operating module on

Press the ON/OFF-key (4) on the control panel of the operating module.

☞ Therefore observe operation manual < *Operating module* >.



Pre-operation checks

Before the checks before initial driving, driving readiness needs to be established.

☞ Therefore observe chapter *Selecting the operation* on page 19.

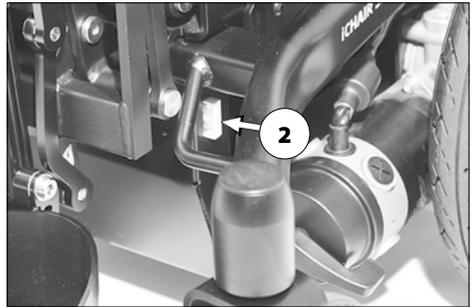
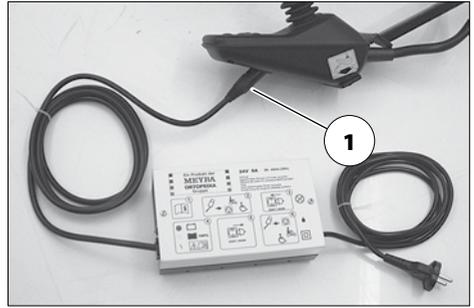
Before starting to drive, the following should be checked:

- ☞ the battery charging condition,
- ☞ the setting of the preselected final speed.
- For this observe the operating manual < *Operating module* >.

Battery charging procedure

Do not insert any objects other than the battery charger plug into the battery charging socket. – Danger of short circuit!

- ☞ For the battery charging procedure also observe the operating manual of the battery charger.
1. Lock the electric wheelchair.
 - ☞ Therefore observe chapter *Securing the electric wheelchair* on page 16.
 2. Insert the charger plug into the battery charging socket (1) of the operating module.
 3. Switch the battery charger on, resp. insert the main plug of the battery charger into the corresponding power socket.
 - The battery charging procedure is initiated.
 - ☞ The charging procedure only runs with an intact mains/battery fuse (2)!
 4. After a completed charging procedure disconnect the battery charger from the socket and remove the battery



charging plug from the battery charging socket.

Positioning the operating module

Switch off the operating module before adjusting/removing it.

Function description

You will find a detailed description of the keys and symbols in the operating manual for *< Operating module >*.

The position of the operating module can be adjusted to suit the individual size of the user. The operating module can also be removed for transportation or storage and can be laid on the seat or stored separately.

Adjusting the distance to the padded arm support

When adjusting the distance of the operating module to the arm support, the max. extension mark on the telescopic rod needs to be observed.

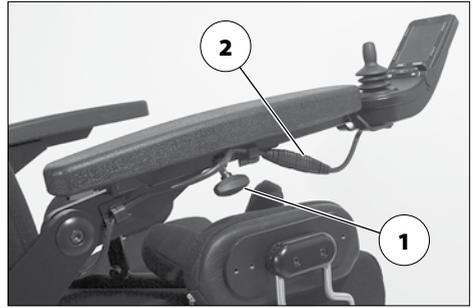
Slacken the clamping screw distance adjustment (1). Afterwards slide the operating module into the desired position. In doing so carefully guide the cable and retighten the clamping screw (1) securely.

Removing the operating module

In order to remove the operating module loosen the clamping screw (1) and disconnect the plugged connection (2).

- Do not pull on the cable while doing so.

Afterwards pull out the operating module toward the front out of the arm support tube.



Inserting the operating module

For drive mode insert the operating module from the front into the arm support tube and adjust the distance to the padded arm support.

- Therefore observe chapter *Adjusting the distance to the padded arm support* on page 22.

Afterwards re-establish the plugged connection (2).

- Check the function of the operating module.

Swivelling the operating module

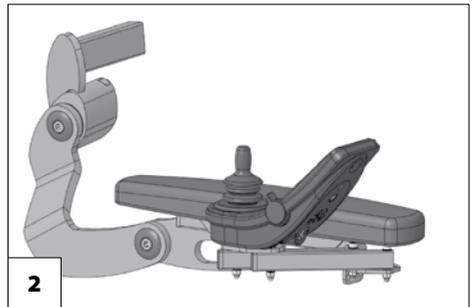
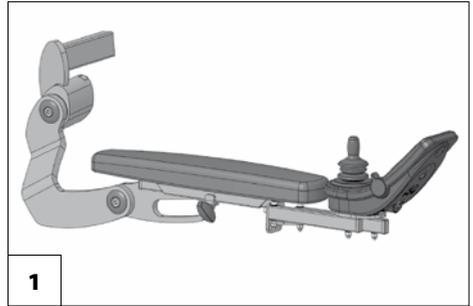
Do not grab into the area of the cross brace. – Danger of squashing!

With the swivel away operating module adapter [1] the operating module can be swivelled back to the side (2) so that it is located parallel to the arm support. This makes it possible, for example:

- to drive closer to a table,
- remove the operating module more easily.

For regular drive mode the operating module can be swivelled back toward the front until it engages back into the magnetic lock [1].

- ⚠ Should the operating module be positioned too close to the arm support, move it forward before swivelling.



ARM SUPPORTS

Do not use the arm supports [1] to lift or carry the electric wheelchair.

The standard arm supports can be adjusted to the requirements of the user by the specialist dealer in height, angle and length.

Lowerable arm support

During the electric adjustment of the back support [1] the arm supports are automatically raised/lowered into a comfortable position of the arm support pads.



Swivelling up the arm supports

The arm supports can be swivelled upward when necessary [1].

Pull out the button (2) that locks down the arm support and swivel the arm support up as far as possible.

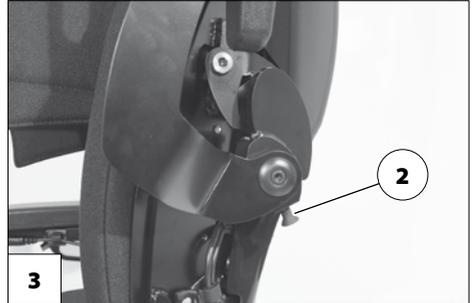
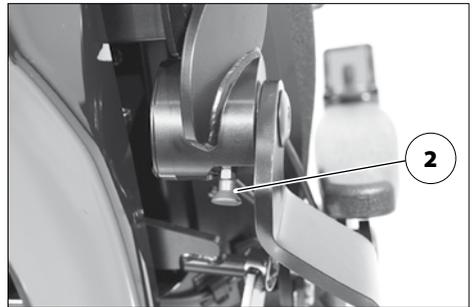
- ☞ Support the arm support slightly with one hand. – This makes it easier to use the locking button of the arm support.
- ☞ The button (2) that locks the arm support must visibly lock into place again [3].



Swivelling down the arm supports

Pull out the button (2) that locks down the arm support and swivel the arm support down as far as possible [4].

- ☞ The locking button (2) of the arm support must visibly lock into place.



BACK SUPPORT

Only adjust the back support when the electric wheelchair is standing on a level surface. A danger of tipping over exists on gradients!

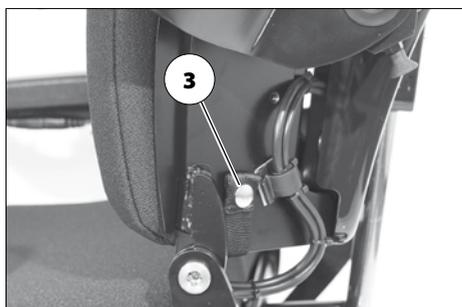
The angle of the back support (1) can be adjusted through the operating module.

- For adjustment view chapter < Mode-menu > in the operating manual < Operating module >.

Back support upholstery

The back support upholstery is slid from the top over the back support shell [2] and attached to the back tin with two snap fasteners (3).

The back support upholstery can be pulled off after opening the snap fasteners (3).



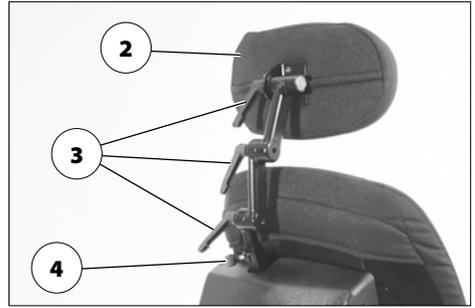
HEAD SUPPORT

The head support (2) is swivel proof, height and depth adjustable as well as removable.

Adjustment of the head support

After loosening the clamping levers (3) the head support can be adjusted to the desired position.

Afterwards retighten the clamping levers (3).



Removing and height adjusting the head support

Loosen the clamping screw (4) to remove or adjust the head support. Either remove the head support or slide it to the desired position. Afterwards retighten the clamping screw (4).

Adjusting the head support during handicapped transport inside a motor vehicle

A correctly adjusted head support reduces the risk of whiplash injury during a rear-end collision.

The head support should be adjusted so that you can fit at maximum a flat hand between the rear end of the head and the support surface. The upper edge of the head support should be adjusted slightly above or at least level with the top of the head.

LEG SUPPORT

Before any actions on the leg support the electric wheelchair is to be secured against unintentional rolling motions.

☞ Therefore observe chapter *Securing the electric wheelchair* on page 16.

The angle of the leg support [1] can be adjusted through the operating module.

☞ For adjustment view chapter *< Mode-menu >* in the operating manual *< Operating module >* resp. chapter *Releasing the brakes* on page 17 within this document.

Footboard

To reduce the overall length, e.g. for transport or to ease entry or exiting for the user, the footboard [2] can be folded upward [3].

☞ Check the locking points!

– Remove both feet from the foot plate.

☞ Before starting to drive the footboard is to be lowered again [2].



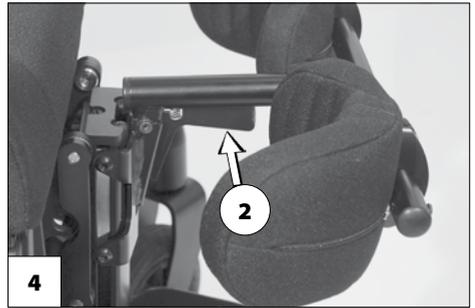
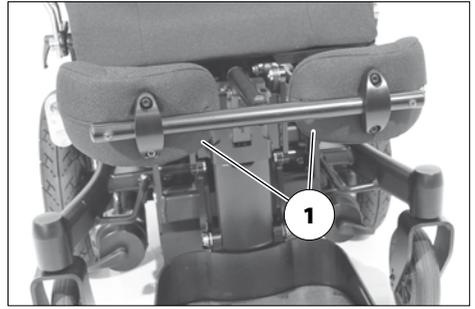
KNEE CUSHIONS

The knee cushions (1) are removable and can be adjusted in height and depth by your specialist dealer.

Removing/attaching the knee cushions

In order to remove/attach the knee cushions, pull up the locking lever (2) first. Afterwards remove (3) or attach (4) the knee cushions.

- ☞ Check the locking function after placing them and letting go of locking lever.

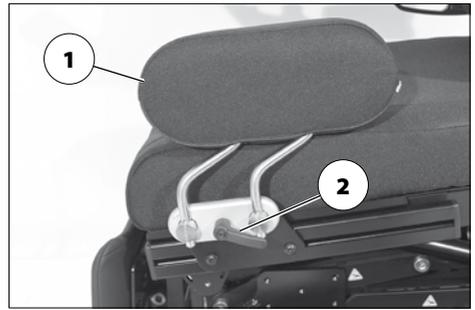


SIDE CUSHIONS

The side cushions (1) are height, seat width and depth adjustable as well as removable.

Adjusting the side cushions

After loosening the clamping lever (2) the respective side cushion can be adjusted to the desired position. Afterwards retighten the clamping lever (2).



Removing the side cushions

After loosening the clamping lever (2) the respective side cushion can be removed.

Inserting the side cushions

With loosened clamping lever (2) the respective side cushion can be inserted into the clamping bolts.

Retighten the clamping lever (2) after adjustment of the side cushion.

SEAT

Special safety information for raising the seat, seat height adjustment, standing and lying functions

Only drive on slopes, inclines and obstacles in the basic position of the seat height adjustment and the standing resp. lying function. – Danger of overturning!

Seat pad

The seat pad [1] is attached to the seat plate with velcro straps and can be removed for cleaning and maintenance.

Replace and attach the seat pad again after cleaning or maintenance [1]. – Velcro fastener.

Seat inclination

Any change to the seat inclination will lead to different driving behaviour!

Only adjust the seat angle [2] when the electric wheelchair is standing on a horizontal, level surface. A danger of tipping over exists on gradients.

The seat-angle adjustment is linked with an automatic speed reduction function.

An increased danger of tipping over exists with a reclined back support.

Before driving make sure that you have not adjusted a negative seat inclination, resp. that the seat inclination ensures a safe sitting position even while driving on hills/slopes.



Electrically adjusting the seat angle

The seat inclination [2] is administrated through the operating module or a separate adjustment module.

☞ Therefore observe operation manual < *Operating module* >.

Seat height adjustment

Only operate the seat height adjustment on straight, level surfaces.

- Higher danger of tilting with increasing seat height!

Before seat height adjustment, check whether the adjustment area is free of obstacles.

- Danger of injury!

The seat height [1] can be adjusted through the operating module.

- ☞ Through this the seat height can be continuously adjusted up to.
 - ☞ For this observe chapter *Technical data* on page 50.
- ☞ Therefore observe operation manual < Operating module >.
- ☞ The speed is limited when the seat is lifted out of the initial position.
 - ☞ For this observe chapter *Technical data* on page 50.

The limitations to speed are automatically reset as soon as the seat reaches the initial position..



Standing function

Only operate the standing function on straight, level surfaces.

- Higher danger of tilting with increasing upright standing!

Before straightening up, check whether the adjustment area is free of obstacles.

- Danger of injury!

The standing function [1] can be adjusted through the operating module.

- ☞ Rising may only be carried out with the chest strap (2) applied and with correctly adjusted knee cushions (3).
- ☞ For this observe chapter *Chest strap* on page 35 and *Knee cushions* on page 29.

For adjustment view chapter < Mode-menu > in the operating manual < Operating module >.



Lying function

Only operate the lying function on straight, level surfaces.

- Higher danger of tilting with increasing upright standing!

Before operating the lying function, check whether the adjustment area is free of obstacles.

- Danger of injury!

The lying function [1] can be adjusted through the operating module.

- ☞ The lying function may only be carried out with the chest strap (2) applied and with correctly adjusted knee cushions (3).
- ☞ For this observe chapter *Chest strap* on page 35 and *Knee cushions* on page 29.

For adjustment view chapter < Mode-menu > in the operating manual < Operating module >.



CHEST STRAP

Make sure that no objects are trapped between belt and the body! – Thus you avoid painful pressure points.

The chest strap (1) prevents falling forward.

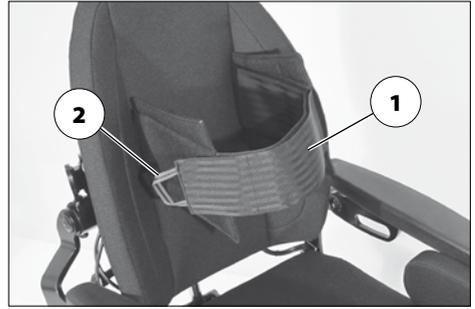
Fastening the chest strap

Pull both straps forward and place close to the body. To close the velcro fastener, place both straps on top of each other and press.

- ⚠ The chest strap should not be pulled too tight.

Opening the chest strap

To open the chest strap pull the loop (2) of the velcro fastener forward [3].



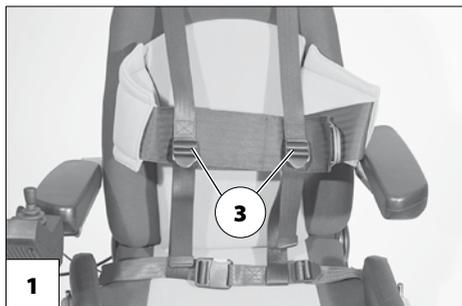
SHOULDER STRAP

The shoulder strap is not part of the retaining system for the wheelchair and/or user during transport in a motor vehicle.

The shoulder strap (1) serves for additional fixation of a person sitting the wheelchair.

- Additional stabilisation of the sitting position.
- Prevents falling forward.
- Continuous adjustment to suit the user's needs.

The shoulder strap is screwed on, from the outer side, at the respective back support holder.

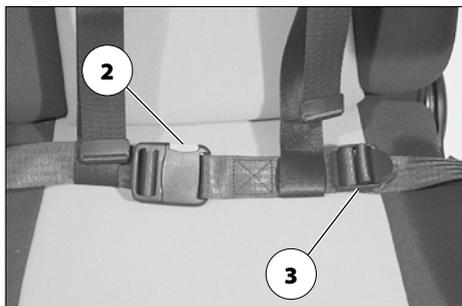


Fastening the shoulder strap

Make sure that no objects are trapped between belt and the body! – Thus you avoid painful pressure points.

Pull both belt halves to the front and slide the catch halves together so that they latch together. Then carry out a pull test.

To open the shoulder strap the red locking button (2) is pressed down.



Adjustment of belt length

- ⚠ The shoulder strap should not be pulled too tight.

To adjust the length hold the respective strap buckle (3) at a right angle to the strap and position it accordingly.

USB CONNECTOR SOCKET

The maximum power consumption may not exceed 1 A per connection!

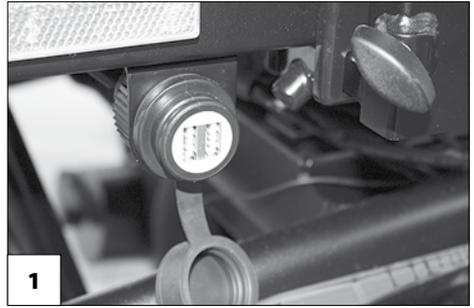
- ⚠ The USB connector socket requires a permanent power supply. This may require a more frequent recharging of the batteries.

The USB connector socket serves to connect devices with a USB plug type A.

- ⚠ The maximum power consumption may not exceed 1 A per connection.

To connect devices, first pull of the clothes guard [1], then insert the USB plug.

- ⚠ If the USB connector socket is not used, close it with the splash protection cap [2].



REAR-VIEW MIRROR

Removing the rear-view mirror

To remove the rear-view mirror loosen the clamping screw (2) and pull the rear-view mirror forward out of the arm support tube.

- ☞ Carefully place the rear-view mirror down and protect the mirror glass from strain or other objects.
- ☞ The rear-view mirror is to be kept clean at all times.

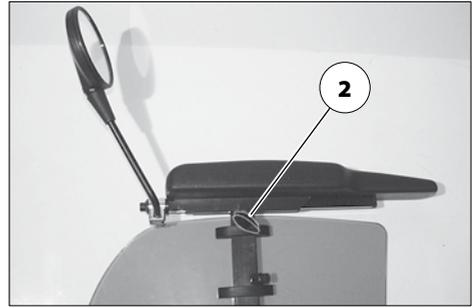
Use common glass cleanser to clean the mirror. In doing so the manufacturers instructions are to be observed.

Attaching the rear-view mirror

For drive mode insert the rear-view mirror from the front into the arm support tube and tighten the clamping screw (2).

Adjusting the rear-view mirror

1. Preadjust the rear-view mirror by turning the clasp.
2. Turn the rear-view mirror on the attachment rod and ball joint until you reach the desired angle.



LIGHTING

In Germany you are subject to the "Straßenverkehrsordnung" (StVO - German road traffic regulations) with your vehicle.

In Germany the legislation requires equipment according to the "Straßenverkehrszulassungsordnung" (StVZO - road traffic licensing regulations).

As a participant in public traffic you are responsible for function and equipment of your vehicle according to the regulations.

For driving outdoors and on public roads the electric wheelchair can be fit with LED-lighting equipment.

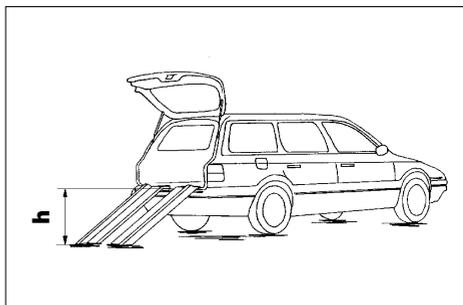
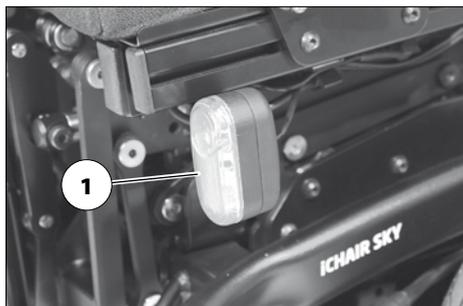
The lighting is activated over the operating module for the driver.

- ☞ Therefore observe operation manual < *Operating module* >.
- ☞ Always switch on the lighting system in poor visibility conditions and especially during darkness in order to see better and be better seen by others.
- ☞ Ensure that headlights, turn signals and taillights as well as reflectors are not covered by clothes or other objects attached to the electric wheelchair.

LOADING AND TRANSPORTATION

Do not use the back support, leg supports, arm supports or restraints to lift the electric wheelchair!

The electric wheelchair must be switched off before lifting!



Loading

The electric wheelchair can be loaded with the aid of ramps or lifting platforms.

Ramps and lifting platforms

Observe the operating manual for the transport vehicle.

Observe the manufacturer's information for the ramp or lifting platform.

The maximum bearing height specified for the ramp must be greater than the height 'h' from the ground to the loading surface, e.g. of the car.

Transport of people inside a motor vehicle

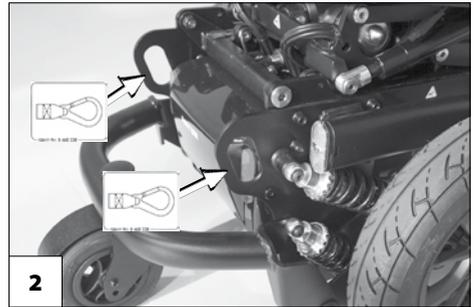
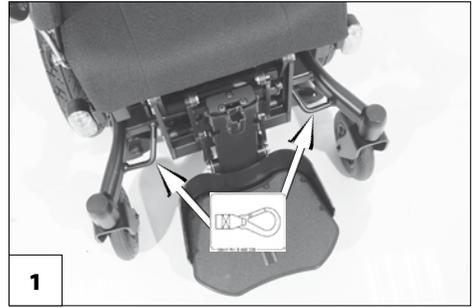
Whether or not your electric wheelchair is permitted as a seat for person transport inside a vehicle, can be determined in chapter *Meaning of the labels on the electric wheelchair* on page 54.

- ☞ Observe the guideline < *Safety with Meyra-wheelchairs, also during transport in motor vehicles* >! – This document and further information are available in the < *Information center* > on our website < www.meyra.com >.

Transport security

The electric wheelchair is only to be secured through the securing points.

- ☞ The four anchor positions are marked with a symbol [1]+[2].
- ☞ The procedure for securing the wheelchair can be read in the document < *Safety and general handling instructions electric vehicles* > chapter < *Transport in motor vehicles or with conveyors* >. – This document and further information are available in the < *Information center* > on our website < www.meyra.com >.



- ☞ The maintenance plan does not give information about the actual extent of work determined on the vehicle.

MAINTENANCE

An incorrect or neglected cleaning and maintenance results in a limitation of the product liability.

Maintenance

The following maintenance Instruction gives you a guide for carrying out the maintenance work.

Maintenance schedule

WHEN	WHAT	REMARK
Before starting out	General Test for faultless operation.	Carry out test yourself or with a helper.
	Checking the magnetic brake Move the selection lever for the drive/push mode into the drive mode position on both sides.	Carry out test yourself or with a helper. If the electric wheelchair can be pushed, have the brakes repaired immediately by the specialist workshop. – Danger of accident!
Especially before driving in the dark	Lighting Check the lighting equipment and reflectors for flawless functioning.	Carry out test yourself or with a helper.
Every 2 weeks (depending on distance covered)	Check air pressure of the tyres Tyre filling pressure: 2.5 bar = 36 psi	Carry out test yourself or with a helper. Use a tyre gauge.
	Adjustment screws Screws and nuts are to be checked for tight fit.	Carry out test yourself or with a helper. Retighten the loosened adjustment screws. Contact specialist workshop upon demand.
Every 6 -8 months (depending on distance covered)	Wheel attachments Wheel nuts or screws are to be checked for tight fit.	Do it yourself or with the aid of a helper. Securely tighten any loosened wheel nuts or screws and retighten again after 10 operating hours or resp. 50 km. Contact specialist workshop upon demand.

WHEN	WHAT	REMARK
<p>Every 2 months (depending on distance covered)</p>	<p>Check tyre profile Minimum tread = 1 mm</p>	<p>Carry out a visual check yourself or with a helper.</p> <p>If the tyre profile is worn down or if the tyre is damaged, consult a specialist workshop for repairs.</p>
<p>Every 6 months (depending on frequency of use)</p>	<p>Check</p> <ul style="list-style-type: none"> – Cleanness. – General condition. 	<p>View chapter <i>Service</i> on page 46.</p> <p>Do it yourself or with the aid of a helper.</p>
<p>Manufacturer recommendation:</p> <p>Every 12 months (depending on frequency of use)</p>	<p>Maintenance jobs</p> <ul style="list-style-type: none"> – Vehicle – Battery charger 	<p>To be carried out by the specialist dealer.</p>

Fuses

Only replace the safety fuse with a safety fuse of the same type!

Replacing the fuses

Before replacing fuses, park the electric wheelchair on a level surface and secure it from rolling away.

- ☞ Therefore observe chapter *Securing the electric wheelchair* on page 16.

New fuses can be obtained for example at petrol stations.

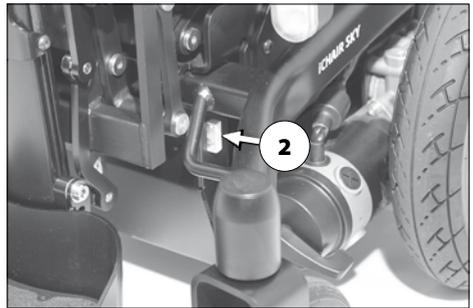
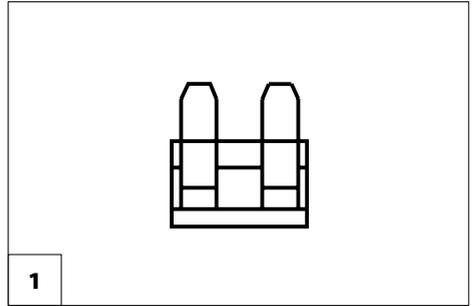
- ☞ If the safety fuse blows again, take the battery to a specialist dealer for repair.

Fuse

Mains-/battery fuse [1]

The blade fuse for the battery current is plugged inside the fuse holder (2) of the battery case.

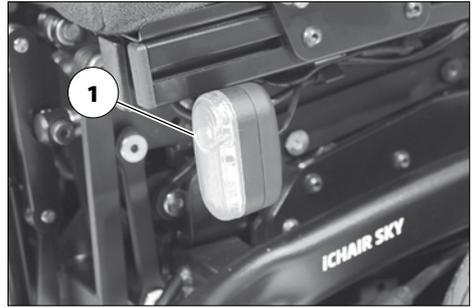
- ☞ Observe chapter *Technical data* on page 50!



Lighting

The lighting (1)+(2) is equipped with longlife LED-technology.

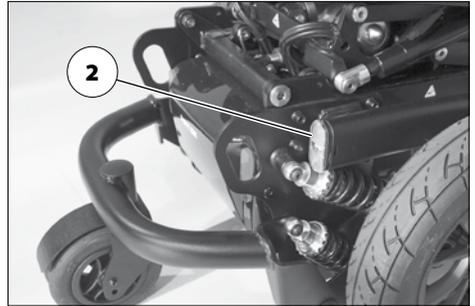
- ⚠ If a turn-signal bulb is defective, the remaining one blinks at double frequency.
- ⚠ Immediately have a defective LED-lamp repaired by a specialist workshop.



Headlights

The housing of the light (1) must be adjusted so that the light cone is visible on the driving surface. – The lower edge of the light cone should be set at distance of 3 meters to the front of the electric wheelchair.

- ⚠ The lighting case might need to be re-adjusted after adjustment of the seat inclination.
- ⚠ If needed go to a specialist workshop for adjustment.



Fault correction

Fault	Cause	Remedy
Battery indicator on the operating module does not light up after the switch-on.	Battery fuse is defective or not correctly inserted.	Replace defective fuse or clean contacts and insert correctly.
	Plug connection of the power supply without contact.	Check the plug connections.
The battery gauge blinks after the switch-on.	One or both of the drive motors are switched to push mode.	Move the selection lever for the drive/push mode into the drive mode position on both sides.
	Plug connection at one of the drives without contact.	Check the plug connections.
	Malfunction in the electronics.	Have it repaired by the specialist workshop. (Push mode) Selection lever in driving mode position.
	Not listed faults.	View < <i>Error diagnostics</i> > in the operating manual for the operating module.
Lighting not active.	LED-lamp defective.	Let it be repaired or replaced by a specialist workshop.
	Lighting fuse or drive electronics defective.	Let it be repaired or replaced by a specialist workshop.

SERVICE

Tyres

The following items need to be checked:

- the air pressure (only on pneumatic tyres)
 - ☞ Therefore observe chapter *Technical data* on page 50 or the lettering on the side of the tyre coat.
- free of damages.

Cleaning and maintenance

Do not clean the electric wheelchair with a high-pressure cleaner! – Danger of short circuit!

Keep the lighting components clean at all times and check for correct functioning before each journey.

Silicone free water based cleaning agents and care products should be used for the care of the vehicle.

- ☞ In doing so the manufacturers instructions are to be observed.

Do not use aggressive cleaning agents e.g. solvents, or hard brushes etc.

Upholstery and covers

The cushions and covers are normally fit with care instructions (instruction for care).

- ☞ Therefore observe chapter *Meaning of the symbols on the washing instruction* on page 55.

In all other cases the following information is true:

- ☞ Clean the upholstery with warm water and hand washing liquid.

- ☞ Remove spots with a sponge or a soft brush.
 - Wash off persistent dirt with commercial fine detergent.

- ☞ Do not soak! Do not machine wash!

Follow-up with clean water and allow to dry.

Plastic parts

The plastic panelling is attacked through non-ionic tensides as well as solvents and especially alcohol.

The plastic panels and parts are made of high-quality plastic.

Only clean the plastic parts with warm water and neutral detergent or soft soap.

When using commercial plastic cleansers the manufacturers application instructions are to be observed.

Finish

The high quality finish ensures an optimum of protection against corrosion.

Should the coating be damaged with scratches or similar, these areas can be touched up with our paint pen available at the specialist dealer.

Slight lubrication of moving parts will ensure for their long functioning.

Disinfection

If the product is used by more than one person (for example in a care centre), the use of a commercial disinfectant is mandatory.

Before disinfection the upholstery and handles are to be cleaned.

A spray- or wiping disinfection is permitted with tested and accredited disinfectants.

- ☞ In doing so the manufacturers' instructions are to be observed.

A list of the disinfectants and disinfection means tested and approved by the Robert Koch Institute can be found under:

< <http://www.rki.de> >.

During the use of disinfectants it can happen that surfaces might be affected in such a fashion that the long term functionality of parts can be limited.

Reinstallation

Before reimplementation the electric wheelchair is to undergo a complete inspection.

- ☞ The hygienic measures required for reinstallation are to be carried out in correspondence with the validated hygienic plan.

Should your specialist dealer carry out a revision/reconditioning or make fundamental changes to your vehicle, without the use of original spare parts, this under certain conditions may result in a remarketing of your vehicle. This will further entail that your specialist dealer might need to conduct new conformity assessments and tests.

Repairs

Trustfully contact your local specialist dealer or another specialist workshop for carrying out repairs. They are briefed in carrying out the work and have educated personnel.

Customer Service

In case you have questions or require help, please contact your local specialist dealer, who will provide counselling, customer service and repairs.

Spare parts

Safety relevant parts or assembly groups are only to be assembled in a specialist workshop. – Danger of accidents!

Spare parts can only be ordered from specialist dealers. In case of repair work, only original spare parts are to be used!

- ☞ Spare parts from other manufacturers can cause malfunctions.

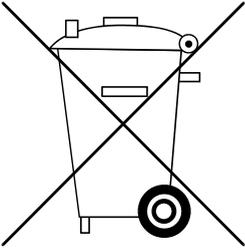
A list of spare parts with the according part numbers and drawings is kept by your specialist dealer.

In order to ensure the correct delivery of a spare part, always quote the corresponding serial number (SN) of the vehicle! You will find this on the type plate.

Whenever changes/modifications are carried out on the vehicle by the specialist dealer, the supplementary information, e.g. assembly/operating instructions must be attached to the operating manual of the vehicle, the date of the modification must be recorded and stated when ordering spare parts.

This should prevent wrong order details on future spare parts orders.

Disposal



The disposal must comply with the respective national law.

Please enquire about local disposal arrangements at your municipal authority.

Information for the specialist dealer

A maintenance and service manual for this wheelchair is available on our website < www.meyra.com > in the service area < *Download* >, in which you can find the following information:

1. Adjustments that can be carried out with tools.
2. Step by step explanations to important repairs.
3. Information on model specific amendments.
4. A checklist for the annual inspection.

The functional tests necessary for the inspection are listed in the check list.

They are a guide for the performance of the inspection work.

- ☞ It does not outline the actual scope of the necessary work which can only be ascertained by an inspection of the vehicle.

After the successful completion of an annual inspection the inspection certificate should be recorded in the operating manual.

A draft for further inspection certificates can be copied from the maintenance and service manual when required. It then has to be added to the operating manual.

Programming the driving behaviour

The driving behaviour of the electric wheelchair can be adjusted through the programming device.

- ☞ Therefore observe the respective < Maintenance and service manual >.

The driving behaviour of the electric wheelchair should be adjusted to the individual requirements and the learning process of the respective user at regular intervals.

- ☞ The programming must be specially tailored to the user. The capacity of reaction, the constitution as well as physical and psychical abilities are to be considered. A talk with the doctor or therapist can be very helpful.
- ☞ Any change to the manufacturer set programming may result in an increased danger of accidents.
 - ☞ Possible danger of tilting in curves.

TECHNICAL DATA

Maximum range

The maximum range depends to a large extent on the following factors:

- battery condition,
- weight of the driver,
- driving speed,
- driving style,
- road surface condition,
- driving conditions,
- ambient temperature.

The nominal values given by us are realistic under the following conditions:

- Ambient temperature of 27 °C.
- 100 % rated drive battery capacity as per the DIN standard.
- new condition of the drive batteries with more than 5 charging cycles.
- Nominal load of 100 kg.
- Without repeated acceleration.
- Level, firm driving surface.

Short form of wheelchair dimensions:

SH = Seat height

SW = Seat width

SD = Seat depth

BH = Back support height

Calculation of the max. user weight:

The maximum total load is calculated on the basis of the unloaded weight of the wheelchair and the maximum passenger weight.

Additional weight due to subsequent additions or luggage reduce the maximum permissible passenger weight.

Example:

A driver wishes to take luggage with a weight of 5 kg. Thus, the maximum user weight is reduced by 5 kg.

The maximum range is greatly reduced by:

- frequent uphill driving,
- insufficient charging condition of the drive batteries,
- low ambient temperature (e.g. in winter)
- frequent acceleration and braking (e.g. in city traffic)
- aged, sulphated drive batteries,
- frequently necessary steering manoeuvres,
- reduced driving speed (especially at walking speed).

In practical use, the maximum range under 'normal conditions' is then reduced to approx. 80 – 40 % of the nominal value.

Hill climbing ability

Gradients in excess of the permitted values (e.g. ramps) should for safety reasons only be driven when the wheelchair is empty!

Values acc. to ISO 7176-15 for model 1.620

	min	max
Overall length with footboard (measured in the center sitting position)	1095 mm	
Overall width	640 mm	690 mm
Overall dimensions	173 kg	340 kg
User weight (incl. additional load)	– kg	140 kg
Weight of the heaviest part	– kg	2 kg
Actual seat depth	400 mm	525 mm
Actual seat width	400 mm	530 mm
Folding length	– mm	– mm
Folding width	– mm	– mm
Folding height	– mm	– mm
Seat surface height at front edge (without cushion)	450 mm	520 mm
Seat angle mechanical	–°	–°
Electric seat angle	0°	40°
Back support angle, mechanical	–°	–°
Back support angle, electrical	90°	180°
Back support height	– mm	540 mm
Foot support to seat (lower shank length) without cushion	250 mm	430 mm
Static stability downhill	–°	8.5°
Static stability uphill	–°	8.5°
Static stability lateral	–°	8.5°
Dynamic stability uphill	–°	8.5°
Angle leg support - seat surface	95°	170°
Arm support height from seat surface (without cushion)	200 mm	350 mm
Back support to front edge of arm support	400 mm	520 mm
Obstacle height		60 mm
Minimal turning radius	640 mm	
Forward top speed (depending on equipment)	6 km/h	10 km/h

Minimum breaking distance from top speed	1000 mm	2100 mm
Maximum range (with 6 km/h)	30 km	40 km
Maximum range (with 10 km/h)	25 km	35 km
Axle horizontal position	- mm	- mm

Further technical data for model 1.620

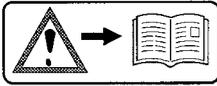
	min	max
Sound level		70 dB(A)
Protection class		IP X4
Turning area	1100 mm	
Drive controller		24 V / 90 / 120 A
Engine output (6 / 10 km/h)		350 W
Main fuse		80 A
Lighting (option)		LED-technology 24 V
Additional load	- kg	10 kg
Permitted axle load front	- kg	170 kg
Axle load, drive wheel	- kg	240 kg
Ground clearance drive		70 mm
Ground clearance battery tub		70 mm
Empty weight (with drive batteries)	173 kg	
Empty weight (without drive batteries)	133 kg	
Overall height	940 mm	1100 mm

Transport dimensions

Length (Support castors folded inward, footplates folded upward)	905 mm	
Width (without arm supports)		640 mm
Height without head support	1080 mm	1115 mm

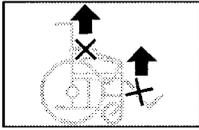
	min	max
<u>Climatic data</u>		
Ambient temperature	-25 °C to +50 °C	
Storage temperature with drive batteries	-25 °C to +50 °C	
Storage temperature without drive batteries	-40 °C to +65 °C	
<u>Steering wheel</u>		
∅ 170 x 35 mm (7")	puncture safe	
<u>Driving wheel</u>		
∅ 364 x 75 mm (14 x 3.5")	pneumatic tyres, max. 2.5 bar (36 psi) puncture safe	
<u>Drive batteries</u>		
2 x 12 V 52 Ah (5 h) / 60 Ah (20 h)	sealed, maintenance free	
2 x 12 V 63 Ah (5 h) / 73 Ah (20 h)	sealed, maintenance free	
Max. battery dimensions (LxWxH)	260 x 174 x 205 mm	
Charging current	8 A	12 A

Meaning of the labels on the electric wheelchair



Attention!

Read the operating manuals and other provided documentation.



Do not lift the electric wheelchair at the arm supports or leg supports.
Removable parts are not suitable for carrying.



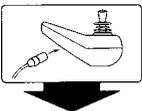
Drive mode



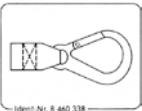
Push mode



Push only on level surfaces.



Indication for charging socket



Attachment possibility for securing the wheelchair during transport without user.



The product is **not** approved as a seat within a motor vehicle.



Indication for danger of jamming. – Do not reach in here



Operation in moving transport vehicles. – Switch off or switch to driving program 3.



Indication for danger of jamming.
The upper part is attached flexibly or swivelling and thus forms a jamming area in the lower section.
– Do not grab into the jamming area



Suspension point with indication of the max. user weight during handicapped transport.



Attention!
Do not conduct maintenance jobs.
Gas pressure container of the pneumatic spring is under pressure.
– Increased danger of tilting!

Meaning of the symbols on the washing instruction

(the symbols correspond to European standard)



Gentle cycle with the indicated temperature in °C



Not suited for the dryer



Do not iron



Do not use chlorine bleach



No dry-cleaning possible

Meaning of the symbols on the type plate



Manufacturer



Order number



Serial number



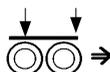
Production date



Permitted user weight



max. permissible total weight



Permitted axle weights



Max. permissible rising gradient



Max. permissible falling gradient

max. ... km/h

Permitted maximum speed



The product is approved as a seat within a motor vehicle



Max. permitted user weight if the product is approved as a seat within a motor vehicle



The product is **not** approved as a seat within a motor vehicle.

INSPECTION CERTIFICATE

Vehicle data:

Model:

Delivery note no.:

Serial-no.(SN):

Recommended safety inspection 1st year (at least every 12 months)

Stamp of specialist dealer:

Signature: _____

Place, date: _____

Next safety inspection in 12 months

Date: _____

Recommended safety inspection 2nd year (at least every 12 months)

Stamp of specialist dealer:

Signature: _____

Place, date: _____

Next safety inspection in 12 months

Date: _____

Recommended safety inspection 3rd year (at least every 12 months)

Stamp of specialist dealer:

Signature: _____

Place, date: _____

Next safety inspection in 12 months

Date: _____

Recommended safety inspection 4th year (at least every 12 months)

Stamp of specialist dealer:

Signature: _____

Place, date: _____

Next safety inspection in 12 months

Date: _____

Recommended safety inspection 5th year (at least every 12 months)

Stamp of specialist dealer:

Signature: _____

Place, date: _____

Next safety inspection in 12 months

Date: _____

WARRANTY / GUARANTEE

We accept legal liability for this product within the scope of or general terms and conditions and warranty and in certain cases other verbal resp. agreed upon guarantees. For warranty and guarantee demands please contact your specialist dealer with following Warranty/Guarantee section and the there included information on model description, delivery note number with delivery date and serial number (SN).

The serial number (SN) can be read off of the type plate.

Precondition for the acceptance of liability in any case is the intended use of the product, the use of original spare parts by authorised dealers as well as maintenance and inspections in regular intervals.

Guaranty is not granted for surface damages, tyres of the wheels, damages due to loosened screws or nuts as well as worn out attachment holes due to frequent assembly work.

Furthermore, damage to the drive and electronics caused by improper cleaning using steam cleaning equipment or the deliberate or accidental flooding of the components are also excluded.

Interferences through radiation sources such as mobile phones with high transmission power, HiFi-equipment and other extreme interference radiators outside of norm specifications cannot be declared as warranty or guarantee claims.

Attention:

- ! Failure to observe the instructions in the operating manual, improperly carried out maintenance work and, especially, technical changes and additions (add-ons) carried out without our prior consent will lead to a general loss of guarantee and product liability.

Note:

This operating manual as a part of the product is to be handed out in case of a change of owner.

We reserve the right to make technical improvements.



The product conforms with the EC Directive 93/42/EEC (MDD) for medical products.

Warranty / Guarantee section

Please fill out! Copy if necessary and send the copy to the specialist dealer.

Warranty / Guarantee

Model designation:

Delivery note no.:

SN (view type plate):

Date of delivery:

Stamp of the specialist dealer:

Inspection certificate for transfer

Vehicle data:

Serial-no.(SN):

Model:

Delivery note no.:

Stamp of specialist dealer:

Signature: _____

Place, date: _____

Next safety inspection in 12 months

Date: _____

Your specialist dealer

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